

IN THE CLAIMS

1. (currently amended) A radio transmission method for transmitting a packet from a radio transmission apparatus serving as an information transmitter to a radio transmission apparatus serving as an information receiver, returning acknowledgment of receipt for a received packet from said radio transmission apparatus serving as said information receiver to said radio transmission apparatus serving as said information transmitter after transmission of information, and retransmitting an unreceived packet from said radio transmission apparatus serving as said information transmitter to said radio transmission apparatus serving as said information receiver in a wireless network, said wireless network being formed with a plurality of transmission apparatus serving as communication stations, said radio transmission method comprising the steps of:

at said radio transmission apparatus serving as said information transmitter,

setting a predetermined transmission frame cycle;

presetting a frame cycle for retransmission; and

automatically retransmitting only a packet for which no acknowledgment of receipt has been received by the time said frame cycle arrives for retransmission, and

wherein said frame cycle for retransmission is preset to a predetermined frame cycle depending on size of an asynchronous

transmission area available for asynchronous transmission in a radio transmission line allowing one of band-reserved transmission and band-secured transmission.

2. (previously presented) A radio transmission method for transmitting a packet from a radio transmission apparatus serving as an information transmitter to a radio transmission apparatus serving as an information receiver, returning acknowledgment of a received packet from said radio transmission apparatus serving as said information receiver to said radio transmission apparatus serving as said information transmitter after transmission of said packet, and retransmitting an unreceived packet from said radio transmission apparatus serving as said information transmitter to said radio transmission apparatus serving as said information receiver in a wireless network, said wireless network being formed with a plurality of transmission apparatus serving as communication stations, said radio transmission method comprising the steps of:

at said radio transmission apparatus serving as said information transmitter,

setting a predetermined transmission frame cycle;

entering a sequence number of a last packet transmitted in said frame cycle as a transmission pointer value of said frame; and

referring to the transmission pointer value of a frame cycle for retransmission in each said frame cycle and

automatically retransmitting only a packet whose acknowledgment of receipt has not been received.

3. (cancelled).

4. (previously presented) The radio transmission method according to claim 1, wherein a predetermined number of retransmissions are set, and then retransmission is made for said number of retransmissions.

5. (previously presented) The radio transmission method according to claim 1, wherein a frame cycle for discarding unreceived packets is preset, and a packet is discarded when receipt acknowledging information is not returned within said frame cycle.

6. (previously presented) The radio transmission method according to claim 2, wherein a sequence number of the said last packet transmitted in said frame cycle is entered as the transmission pointer value of said frame cycle; and the transmission pointer value of a frame cycle for discarding packets is included in each said frame cycle and a packet for which no acknowledgment of receipt has been received is discarded.

7. (cancelled).

8. (previously presented) A radio transmission apparatus for transmitting information in a wireless network, said wireless network being formed with a plurality of communication apparatus serving as communication stations, said radio

transmission apparatus comprising:

packetizing means for dividing asynchronous information into packets as predetermined information units on said wireless network;

transmitting means for transmitting said packets under predetermined access control;

receiving means for receiving acknowledgment of receipt information from a radio transmission apparatus serving as an information receiver;

frame cycle setting means for setting a predetermined transmission frame cycle;

transmission pointer recording means for recording a sequence number of a last packet transmitted in said frame cycle as a transmission pointer value of said frame;

timing means for timing said frame cycle;

retransmission frame cycle setting means for presetting a frame cycle for retransmission; and

retransmitting means for referring to the transmission pointer value of said frame cycle for retransmission in each said frame cycle and automatically retransmitting only a packet for which no acknowledgement of receipt has been received.

9. (cancelled).